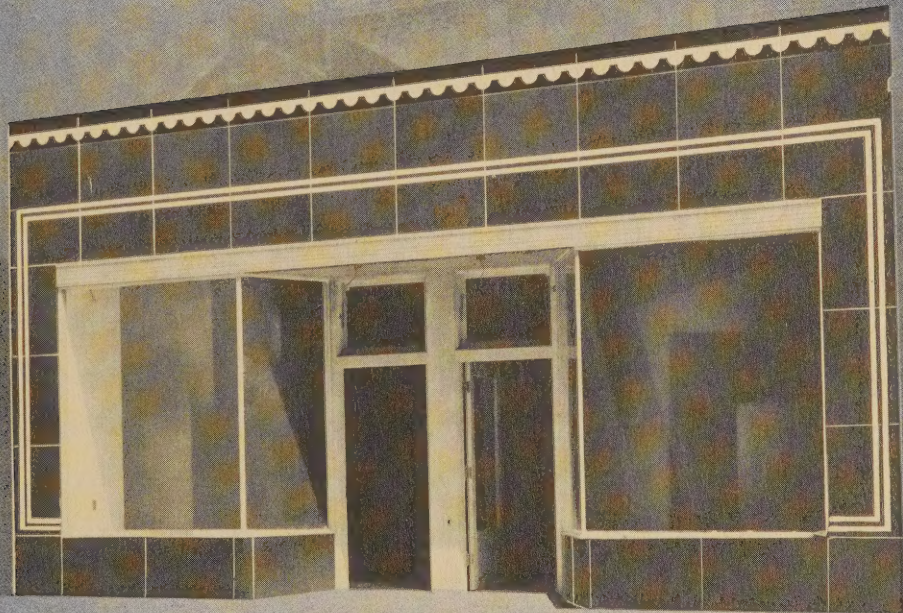


ARCHITECTURAL  
PANELS IN

# PORCELAIN ENAMEL



**W. A. BARROWS PORCELAIN ENAMEL COMPANY**  
Pleasant Ridge Sta. Cincinnati, Ohio





# GENERAL INSTRUCTIONS

## Leveled Architectural Porcelain Panels

Manufactured by the  
W.A. BARROWS PORCELAIN ENAMEL COMPANY  
Pleasant Ridge Sta. Cincinnati, Ohio

### BARROWS PORCELAIN ENAMEL CO.

The system of architectural porcelain consists of a series of porcelain enameled iron sheets formed to a pan shape with an upturned flange at the top for fastening. The entire weight of each panel is supported by hanging from the fastening flange at the top of panel; the bottom being held in place by a small concealed pin projecting upward from the panel below. Each panel is free to ride up and down on this stud to allow for expansion and contraction. Each vertical row of panels is independent of other rows.

With the full  $\frac{1}{4}$ " joint between panels, it is possible to insert a small screw driver in the joint and remove the fastening screws and remove any single panel without disturbing other panels.

The panels are finished in acid resisting enamel of highest quality in standard colors. Special colors can be furnished if required at an extra charge for matching. Special finishes can also be supplied at an extra charge. All panels are fired in a hanging position to eliminate marks or discoloration from burning tools.

In order to eliminate all buckling, all flat panels are backed with  $\frac{3}{4}$ " insulation board and light galvaneal metal firmly cemented together with water resistant cement under great pressure. The insulation also serves as a sound deadener, insulation against heat, cold and sound and permits a larger size of panel to be used.

For economical use it is best to hold the panels as large as possible, but not over 36"x42" unless absolutely necessary and in no case over 42"x48". Flanges or returns should be held under 4" if possible. Rounded pieces should terminate at the spring line and not extend past the curved portion. Pieces other than flat surfaces and flat surfaces under 6" in width will not be backed.

A sketch of a proposed job showing the layout of the various pieces is necessary, along with a list giving description and dimensions of the pieces. For pieces requiring more than one color, an accurately dimensioned detail or full sized drawing of the decoration is required.

All panels are laid out from center line to center line of the joints. All panels are automatically manufactured  $\frac{1}{8}$ " smaller on all four sides or  $\frac{1}{4}$ " less on each dimension than specified. A 24" x 30" panel will be made 23  $\frac{3}{4}$ " x 29  $\frac{3}{4}$ " actual face dimensions. This automatically provides a  $\frac{1}{4}$ " joint both horizontally and vertically.

The area of each panel is figured from center line of joint and should the area fall between two price brackets, the next larger area and price apply. A panel 24" x 27" has an area of 4.59 sq. ft. and would take the 5.0 sq. ft. price.

Extras for special shapes are added to the base price of a standard panel of the same area.

The base charge is figured on the total number of pieces in the entire order.

The stencil charge does not apply to straight line stripping. It does apply to all other decoration and is based on the total square footage of the pieces involved. Also, each color combination or design assumes a separate stencil charge. Should a three color decorative panel and a sign with different colors occur on the same job, two stencil charges would apply.

Should it be necessary to close the end of a pilaster or corner panel, specify a Set Back panel with the dimension of the first step the same distance as the return.

Be sure to specify colors by name and by number.

For bulkheads or low wainscots it sometimes is desirable to turn the panels on edge so that the fastening flange is on the side instead of on the top. Should this be done, the listing of the dimensions must be reversed as the fastening flange is always supplied on the top of the piece.

It is virtually impossible to illustrate all the possible shapes that might be needed to complete every job. Should shapes be required that are not illustrated furnish a rough sketch of the part, indicating clearly the dimensions from center line to center line of joints.

## EXTRA CHARGES FOR SPECIAL SHAPES To be added to the list price

STANDARD - - - - -	List
IRREGULAR - - - - -	1.40
OUTSIDE CORNER under 4" return	.90
" " over 4" "	2.20
INSIDE CORNER under 4" "	1.40
" " over 4" "	3.00
PILASTER under 4" "	1.60
" 4" to 8" "	3.80
ROUNDED OUTSIDE CORNER - - -	1.20
" INSIDE " - - -	1.20
ENDING - - - - -	List
HORIZONTAL CORNER under 4" ret.	.90
" " over 4" "	2.20
HORIZONTAL INSIDE CORNER under 4" ret.	1.40
" " over 4" ret.	3.00
TOP SETBACK - - - 2.40 each step	
SIDE SETBACK - - - 2.40 " "	
BOTTOM SETBACK - - - 2.40 " "	
CORNER SETBACK under 4" return	
" " 3.80 each step	
" " over 4" return	
" " 4.60 each step	

INSIDE CORNER SETBACK (not shown)	
under 4" return	
4.40 each step	
over 4" return	
6.00 each step	
ROUND TOP under 4" radius	3.20
4" to 8" "	4.60
ROUND BOTTOM under 4" radius	3.20
4" to 8" "	4.60
SET BACK ROUND CORNER under 8" rad.	
4.60 each step	
8" to 14" rad.	5.40 " "
14" to 24" "	6.20 " "
ROUND CORNER ROUND TOP - \$15.00 die charge for each change in radius plus \$2.40 for each panel	
HORIZONTAL ROUND CORNER - - -	1.00
HORIZONTAL ROUND SET BACK under 8" rad. each step	4.60
8" to 14" " " "	5.40
14" to 24" " " "	6.20
PILASTER SETBACK under 4" return ea. step	5.20
4" to 8" " " "	7.40
NOTCHED - - - - -	3.00

CUTOUT - - - - -	1.60
LOUVRE - add \$10.00 setup charge for each different size louver plus \$.10 for each louver	
GRILL - \$2.00 plus \$1.50 for each $\frac{1}{2}$ sq.ft. or fraction of grill	
CREASED - - - - -	1.60
FLUTED - - - - - \$ 1.60 ea. flute	
NO. 1 & 3 COPING - add 30% of list price as extra	
NO. 1 & 3 COPING ROUND - add 70% of list price as extra	
NO. 2 COPING - add 50% of 1st price list price as extra.	
NO. 2 COPING ROUND - add 100% of list price as extra.	
NO. 1 DECORATIVE STRIP - add 100% of list as extra.	
NO. 2 DECORATIVE STRIP - add 125% of list as extra.	
NO. 3 DECORATIVE STRIP - add 115% of list as extra.	
FINISHING ANGLE - - - - -	List
LETTERS - Prices on application	





# W. A. BARROWS PORCELAIN ENAMEL COMPANY

LANGDON FARM RD. & PENN. R. R.

CINCINNATI, OHIO

MAIL ADDRESS BOX 137 PLEASANT RIDGE STA., CINCINNATI

## PRICE LIST FOR STANDARD ARCHITECTURAL PANELS IN PORCELAIN ENAMEL

ALL PRICES F.O.B. CINCINNATI - SUBJECT TO CHANGE WITHOUT NOTICE

Area ea. panel		1 color	2 colors	3 colors	4 colors	5 colors
1 sq. ft.		3.90	4.40	4.90	5.40	4.90
1½	" "	4.50	5.20	5.88	6.58	7.26
2	" "	5.12	5.92	6.72	7.52	8.32
2½	" "	5.90	6.80	7.70	8.60	9.50
3	" "	6.60	7.68	8.76	9.84	10.92
3½	" "	7.36	8.62	9.88	11.14	12.40
4	" "	8.00	9.44	10.88	12.32	13.76
4½	" "	8.76	10.38	12.00	13.62	15.24
5	" "	9.50	11.30	13.10	14.90	16.70
5½	" "	10.12	12.10	14.08	16.06	18.04
6	" "	10.80	12.96	15.12	17.28	19.44
6½	" "	11.44	13.78	16.12	18.46	20.80
7	" "	12.24	14.72	17.28	19.80	22.32
7½	" "	13.04	15.74	18.44	21.14	23.86
8	" "	13.80	16.68	19.56	22.44	25.32
8½	" "	14.44	17.50	20.56	23.62	26.68
9	" "	15.12	18.36	21.60	24.84	28.08
9½	" "	15.92	19.34	22.76	26.18	29.60
10	" "	16.64	20.24	23.84	27.44	31.04
11	" "	18.16	22.12	26.08	30.04	34.00
12	" "	19.60	23.92	28.24	32.56	36.88
13	" "	21.00	25.68	30.36	35.04	39.72
14	" "	22.40	27.44	32.48	37.52	42.56
15	" "	23.82	29.22	34.62	40.02	45.42

### BASE CHARGE


Figured on the total number of pieces in the order and added to the entire cost of the job.

1 piece	\$ 13.00	9 pieces	\$ 35.12	17 pieces	\$ 51.54	25 to 29 pieces	\$ 63.96
2 pieces	16.34	10 "	37.06	18 "	53.18	30 to 34 "	68.20
3 "	19.68	11 "	39.60	19 "	55.12	35 to 49 "	72.88
4 "	22.32	12 "	41.24	20 "	55.96	50 to 59 "	80.50
5 "	24.96	13 "	44.08	21 "	57.80	60 to 74 "	84.50
6 "	27.50	14 "	45.92	22 "	59.14	75 to 99 "	88.50
7 "	30.04	15 "	47.76	23 "	60.88	100 to 200 "	95.00
8 "	32.68	16 "	49.60	24 "	62.02	200 or more "	100.00

### STENCIL CHARGE

Figured on the total area of all pieces having the same colors and the same number of colors. Different combinations carry separate stencil charges. Number of colors includes background. Stencil charge applies to all pieces having more than one color except for simple straight line brushing. Should exactly the same design occur on several pieces or in several places, only one stencil charge applies.

Total Area in sq. ft.	2 Colors	3 Colors	4 Colors	5 Colors
1 to 10	\$ 10.00	15.00	20.00	25.00
10 to 20	15.00	22.50	30.00	37.50
20 to 35	20.00	30.00	40.00	50.00
35 to 60	25.00	37.50	50.00	62.50
60 to 100	30.00	45.00	60.00	75.00
100 to 150	35.00	52.50	70.00	87.50
150 to 200	40.00	60.00	80.00	100.00



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# W. A. BARROWS PORCELAIN ENAMEL COMPANY

LANGDON FARM RD. & PENN. R. R.

CINCINNATI, OHIO

MAIL ADDRESS BOX 137 PLEASANT RIDGE STA., CINCINNATI

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Leveled architectural panels as manufactured by the W.A. BARROWS PORCELAIN ENAMEL COMPANY are the culmination of several years work in the building field and are designed solely for the purpose of producing a building material entirely suitable to discriminating architects. We wish to encourage its use as a material opening new fields to the designer and urge fullest use of its possibilities of color, form, texture and permanence. It is not a substitute for other materials and should not be limited by the restrictions of other materials, nor should the finished appearance be expected to duplicate that of other materials.

In order that the Architect may feel secure in designing for and specifying porcelain enamel, we give the following specifications, which will if followed closely, permit any reliable manufacturer of porcelain enamel to produce a satisfactory material. The specifications are the result of practical experience. Various procedures are outlined clearly and for very definite reasons. We urge that they be followed closely.

## TYPICAL SPECIFICATIONS FOR PORCELAIN ENAMEL PANELS

This contract shall include furnishing, furring and erecting of all porcelain enameled panels as indicated on the blueprints.

**Material:** All Porcelain Enameled Panels to be of a type and quality as manufactured by the W.A. BARROWS PORCELAIN ENAMEL COMPANY of Cincinnati, Ohio. The panels proper are to be formed up of 20 Ga. Armco enameling iron. All flanges to be broken to 90° Angle and break shall have not greater than 1/8" radius inside. All corners to be welded solidly with a gas weld and ground off to at least 1/8" back from face of panel. Sheet iron of finished panel must be free of dents, creases and other defects.

Porcelain enamel shall consist of a ground coat, one cover coat of standard enamel and one coat of acid resisting enamel and shall in no case be thicker than necessary to produce a commercially uniform color on all panels. Colors to be as selected and approved by the Architect. The backs of all panels shall be given a heavy coat of scrap enamel. The panels shall receive all firings in a vertical or hanging position and no point marks or discoloration from burning tools will be permitted. The porcelain surface must be free of blisters, copperheads, scratches or other defects. Orange peel effect of surface must be held to a minimum.

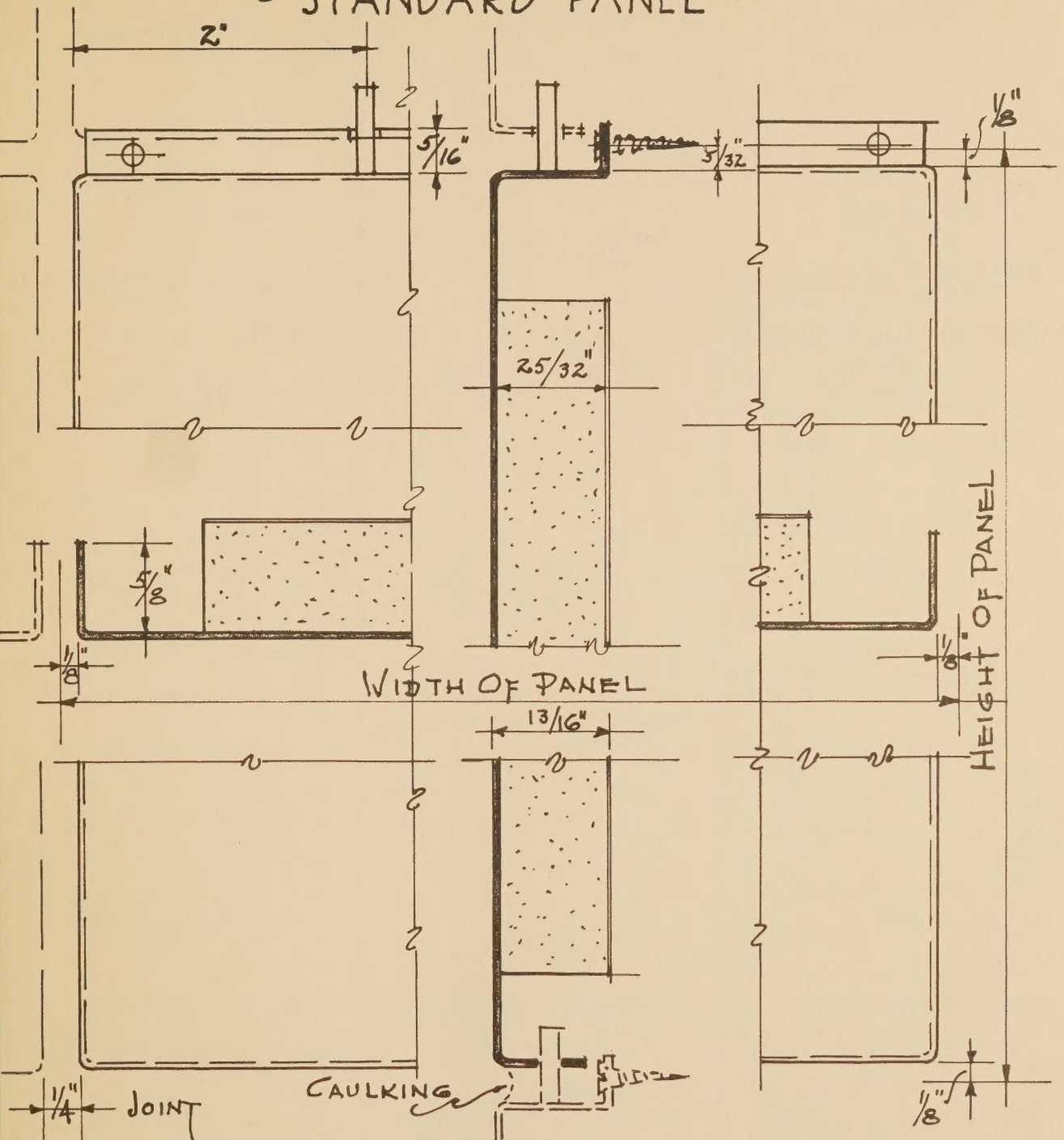
**Backing:** After firing panels are to be fitted with necessary brass nuts and bolts to act as registering studs. A backing of 3/4" Masonite and 28 Ga. galvanized metal is to be cemented into the backs of the panels under sufficient pressure to produce a finished panel presenting a substantially level surface. Crating to be sufficient to withstand normal freight handling and insure arrival of the job in good condition.

**Erection:** The Contractor shall fur the building at the horizontal joints of the panels with 1" x 2" furring strips coated with asphalt paint. The panels will be screwed to this furring strip with 3/4" brass wood screws. The joints shall be caulked with mastic of Tremco Manufacturing Company of Cleveland, Ohio or equal in a color to be chosen by the Architect. All dirt shall be removed from the panels and the completed job must present a neat and finished appearance.





# - STANDARD PANEL -



DIMENSIONS OF PANELS ARE INDICATED FROM CENTER TO CENTER OF JOINT - ACTUAL PANELS ARE FURNISHED  $1/4"$  SMALLER EACH WAY. PANELS ARE HUNG FROM TOP FLANGE ENTIRELY - BOTTOM IS HELD IN BUT NOT SUPPORTED BY STUDS AND IS FREE TO EXPAND

W. A. BARROWS PORCELAIN ENAMEL COMPANY

PLEASANT RIDGE STA.,

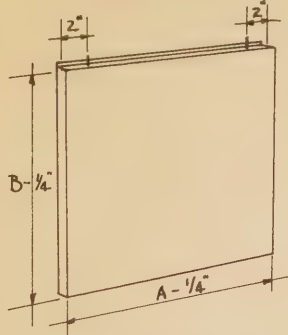
CINCINNATI, O.

11



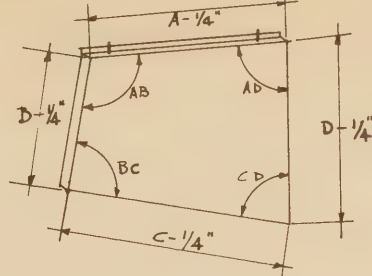


## STANDARD



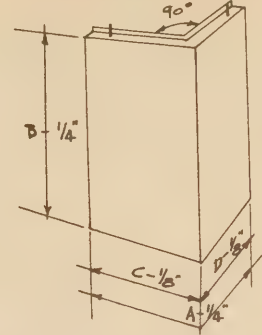
DIMENSION "A" - WIDTH  
DIMENSION "B" - HEIGHT

## IRREGULAR



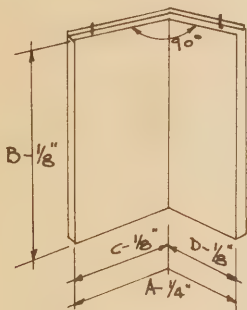
DEGREES OF AT LEAST ONE  
ANGLE MUST BE GIVEN

## OUTSIDE CORNER



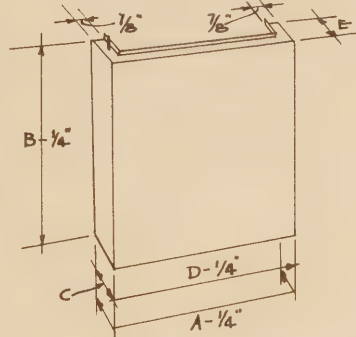
FOR OTHER THAN RIGHT ANGLE  
CORNER-GIVE ANGLE IN DEGREES

## INSIDE CORNER

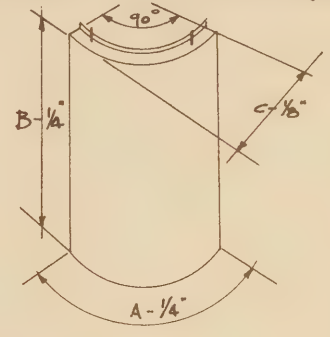


GIVE ANGLE IN DEGREES

## PILASTER

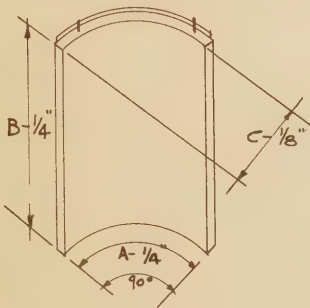


## ROUNDED OUTSIDE CORNER



GIVE ANGLE IN DEGREES

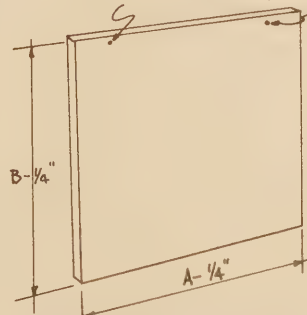
## ROUNDED INSIDE CORNER



GIVE ANGLE IN DEGREES

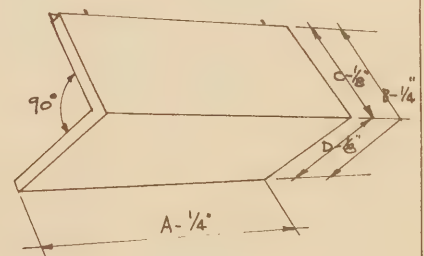
## ENDING

HOLES SUPPLIED INSTEAD OF FLANGE



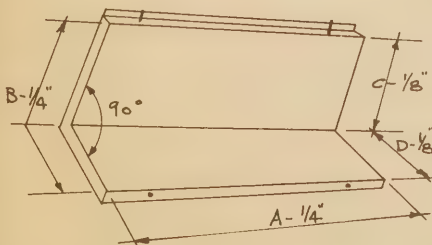
ENDING PANELS CAN BE SUPPLIED  
IN ANY TYPE OF PANEL

## HORIZONTAL CORNER



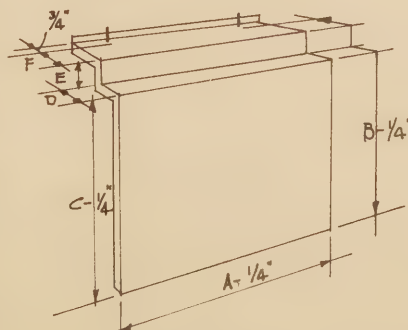
GIVE ANGLE IN DEGREES

## HORIZONTAL INSIDE CORNER



GIVE ANGLE IN DEGREES

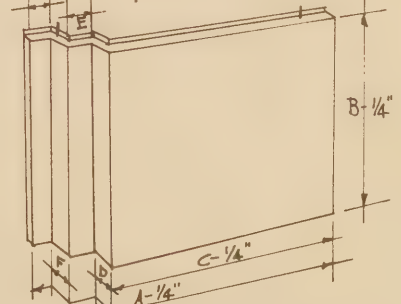
## TOP SETBACK



STEP "E-F" MAY BE OMITTED

## R OR L SIDE SETBACK

(LEFT SHOWN)



STEPS "F" & "G" MAY BE OMITTED

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MAIL ADDRESS PLEASANT RIDGE STA.

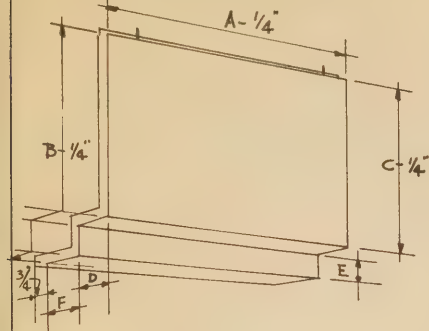
CINCINNATI, OHIO

2



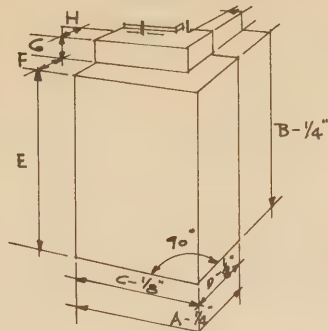


### BOTTOM SETBACK



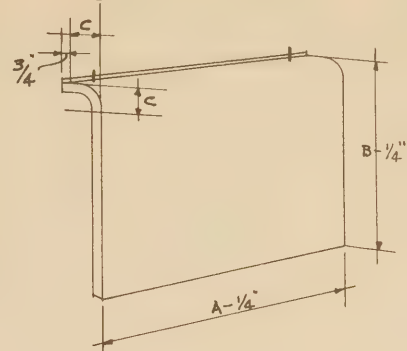
STEP "E-F" MAY BE OMITTED

### CORNER SETBACK

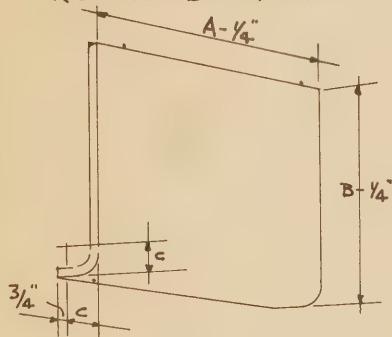


STEP "G-H" MAY BE OMITTED  
GIVE ANGLE IN DEGREES

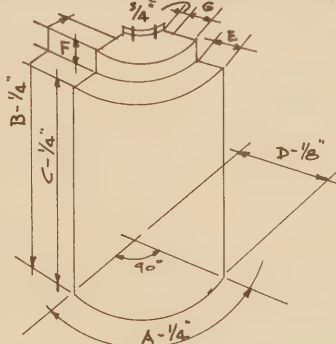
### ROUND TOP



### ROUND BOTTOM

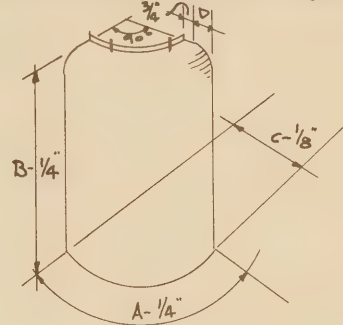


### SETBACK ROUNDED CORNER



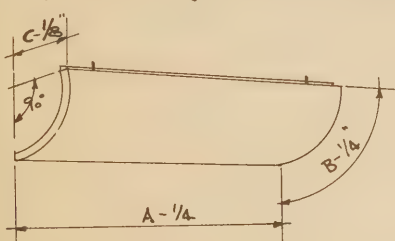
GIVE ANGLE IN DEGREES

### ROUND TOP ROUNDED CORNER



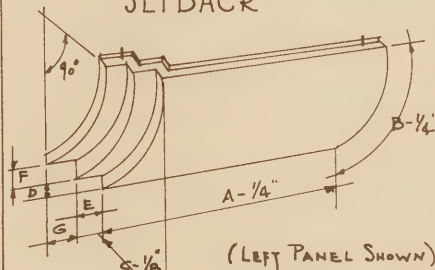
GIVE ANGLE IN DEGREES

### HORIZONTAL ROUNDED CORNER



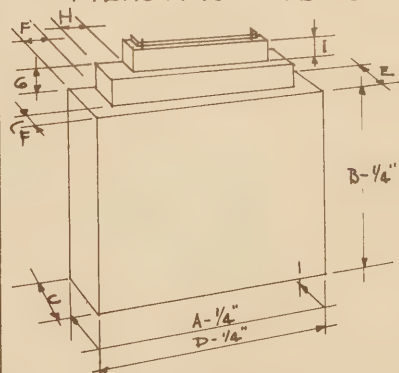
GIVE ANGLE IN DEGREES

### R&L HORIZONTAL ROUNDED SETBACK

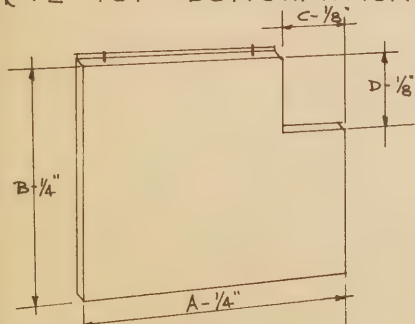


STEPS "F" & "G" MAY BE OMITTED  
GIVE ANGLE IN DEGREES

### PILASTER SETBACK

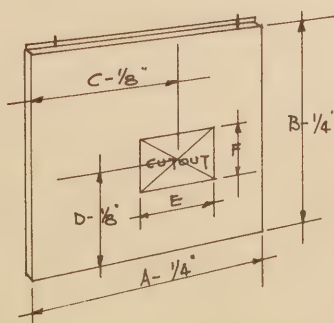


### R&L - TOP & BOTTOM NOTCH



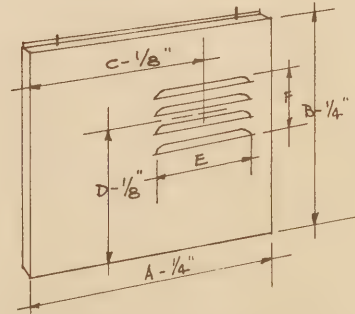
"C" HORIZONTAL - "D" VERTICAL DIMENSION  
("TOP-RIGHT NOTCH PANEL" SHOWN)

### CUT OUT



"C" FROM LEFT "D" FROM BOTTOM

### LOUVRE



"C" FROM LEFT "D" FROM BOTTOM  
"E" & "F" VARY TO CLOSEST AVAILABLE DIES

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MAIL ADDRESS PLEASANT RIDGE STA.

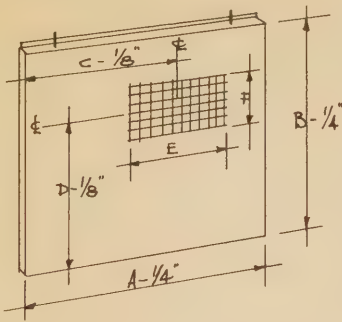
CINCINNATI, OHIO

3



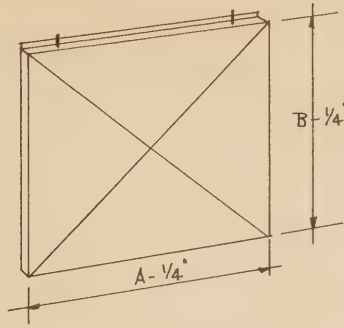


## GRILL PANEL



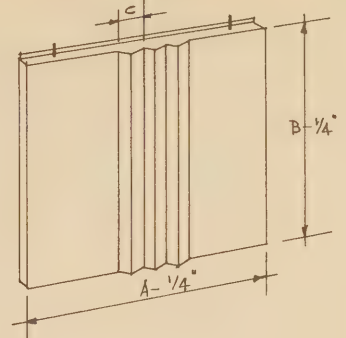
"C" FROM LEFT "D" FROM BOTTOM

## CREASED



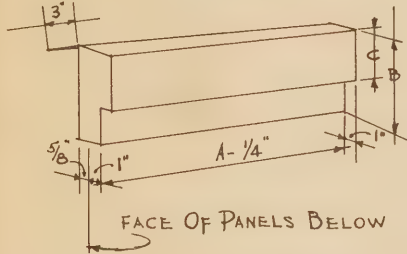
PANEL CREASED SLIGHTLY IN BENDING BRAKE THEN PRESSED FLAT

## FLUTED

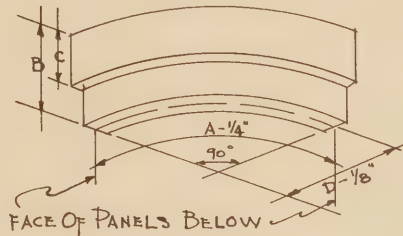


SPECIFY NUMBER OF FLUTES.

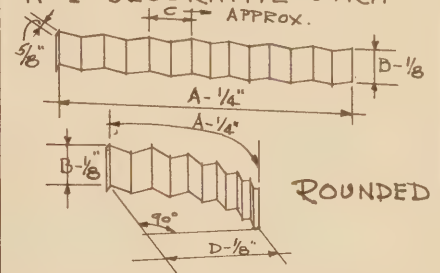
## Nº 1 - COPING



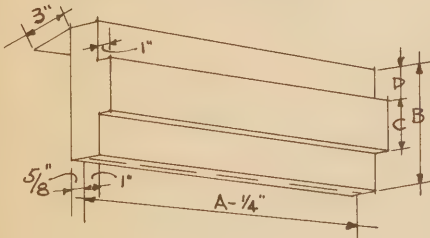
## Nº 1 - COPING-ROUND



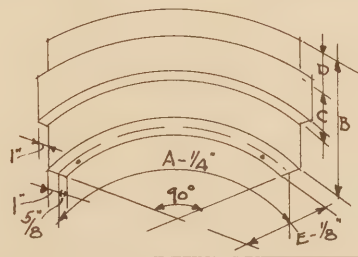
## Nº 1 - DECORATIVE STRIP



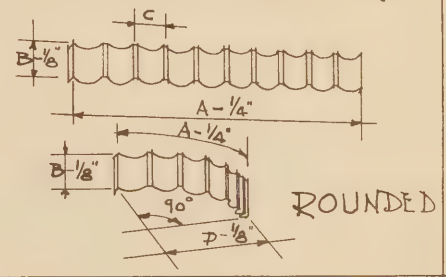
## Nº 2 - COPING



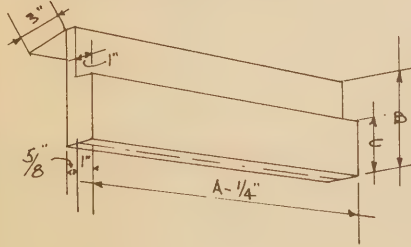
## Nº 2 - COPING-ROUND



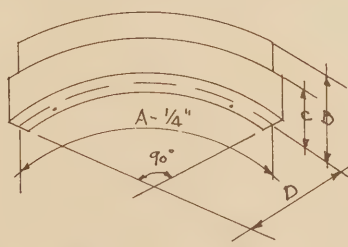
## Nº 2 - DECORATIVE STRIP



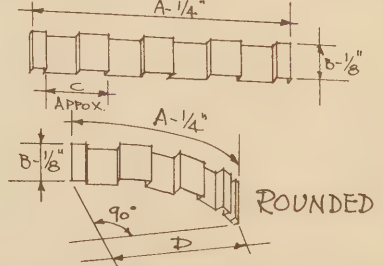
## Nº 3 - COPING



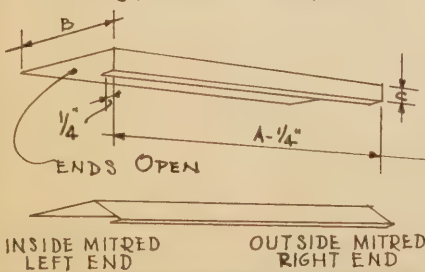
## Nº 3 - COPING-ROUND



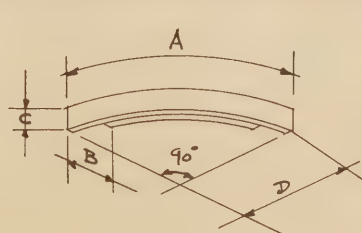
## Nº 3 - DECORATIVE STRIP



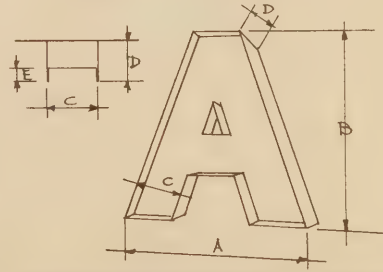
## FINISHING ANGLE



## ROUND FINISHING ANGLE



## BUILT UP LETTERS



W. A. BARROWS PORCELAIN ENAMEL COMPANY

LANGDON RD & PENN. R. R.

MAIL ADDRESS

PLEASANT RIDGE STA.

CINCINNATI, OHIO

4









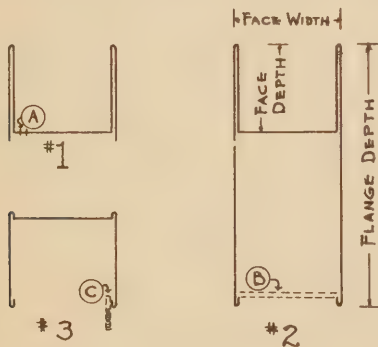


# FORMED PORCELAIN LETTERS



A satisfactory method of economically building a formed porcelain enameled letter. The letters can be furnished in a great variety of sizes in practically any style. The flange depth can vary from 1" to 8", and the face can be set anywhere from 1/4" from the front edge of flange to 1/4" from the back edge of flange. The faces firmly welded in along with this special method of fabrication makes it possible to obtain a very smooth, uniform finish and also to hold the channels in a very straight plane.

## General Specifications and Suggestions



Patent Pending

Types No. 1 and No. 2 have recessed faces for concealing neon tubing. Type No. 3 has face recessed minimum of 1/4", which can either be adapted for neon tubing set out from letter, or for neon within the rear for indirect effect, or for plain, non-illuminated letter. No. 2 has sufficient depth in rear of face to accommodate electrodes.

(A) type for fastening is for bolt through face into background. (B) type is welded stud for fastening to background. (C) type is channel welded across flanges for metal screw application to background or for fastening recessed back in letter with metal screws. Strap (B) may have key-hole for application to solid background where access may not be gained to rear for screw or bolt.

## PRICE LIST

LETTERS FINISHED ONE COLOR FROM FULL-SIZED PATTERN\* SUBMITTED.

Height Inches	Side Flanges Up to 4"	Side Flanges Over 4" and Up to 8"
8	\$ 8.80	\$ 8.46
10	9.46	10.02
12	10.36	10.96
14	11.24	11.90
16	12.26	12.98
18	13.32	14.12
20	14.76	15.66
24	17.92	18.96
26	19.54	20.68
28	20.44	21.64
30	22.36	23.72
36	28.00	29.62
42	33.72	35.68
48	40.40	42.80

For two colors add 10% of base price, for three colors add 20% of base price, etc.

For extra lamp socket holes, add 4 cents per hole.

Backs for letters not included in above prices. For Porcelain backs add 25% to base price.

Extra charges are made for fancy or elaborate letters. Example: cursive, fancy script, etc.

Electrode and tube support holes punched at no additional charge.

Three methods of fastening: A, B, and C, as indicated, at no additional charge.

Above prices subject to change without notice.

\* Full-sized layouts must include cross-section of letters.

**W. A. BARROWS PORCELAIN ENAMEL COMPANY**  
Pleasant Ridge Sta. Cincinnati, Ohio





JOB#

FROM

To

**JOB**

W. A. BARROWS PORCELAIN ENAMEL CO.

PLEASANT RIDGE STA. CINCINNATI, OHIO.

[illegible]

TOTAL NO PIECES

TOTAL AREA

# COLORS

By \_\_\_\_\_

SIGNED \_\_\_\_\_

## SHIPPING INSTRUCTIONS

TOTAL PRICE & EXTRAS

BASE CHARGE

STENCIL CHARGE

TOTAL

LESS %DISCOUNT

TOTAL COST

1	_____	No	_____
2	_____	No	_____
3	_____	No	_____
4	_____	No	_____
5	_____	No	_____









*W. A. Barrows*

**PORCELAIN ENAMEL COMPANY**

CINCINNATI, OHIO